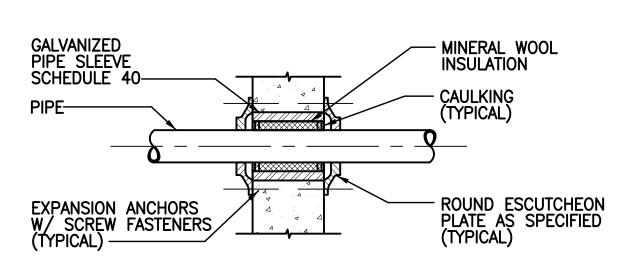
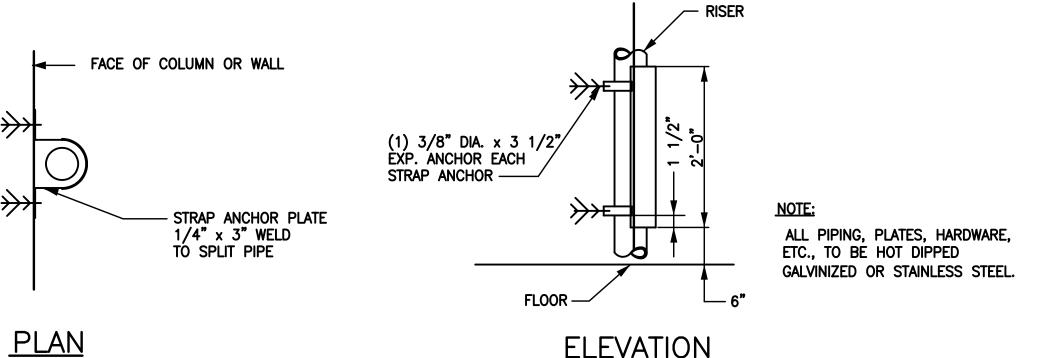


<u>DETAIL 1 — PIPE PENETRATION</u> IN INTERIOR WALL



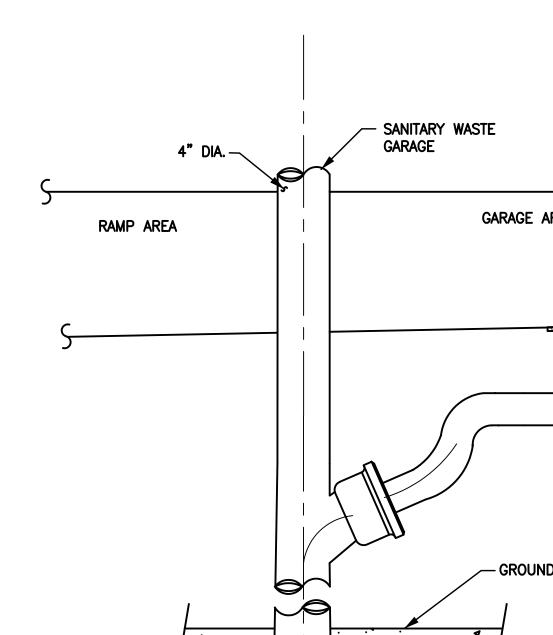
DETAIL 2 - PIPE PENETRATION IN EXTERIOR WALL



ELEVATION

FOR INFORMATION DETAIL 5 — PIPE GUARD

NOTE: PIPE GUARD SHALL BE INSTALLED BY GENERAL CONTRACTOR



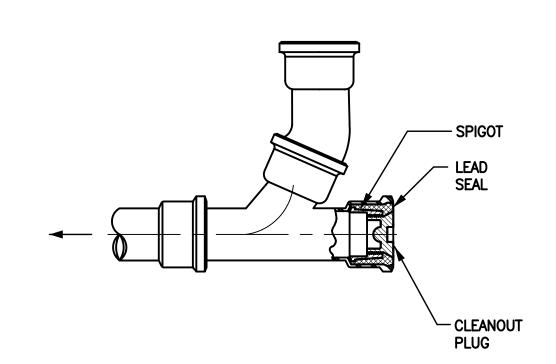
<u>DETAIL 3 — PIPE PENETRATION</u> IN FLOOR SLAB

CAULKING (TYPICAL)

- WATERTIGHT OAKUM

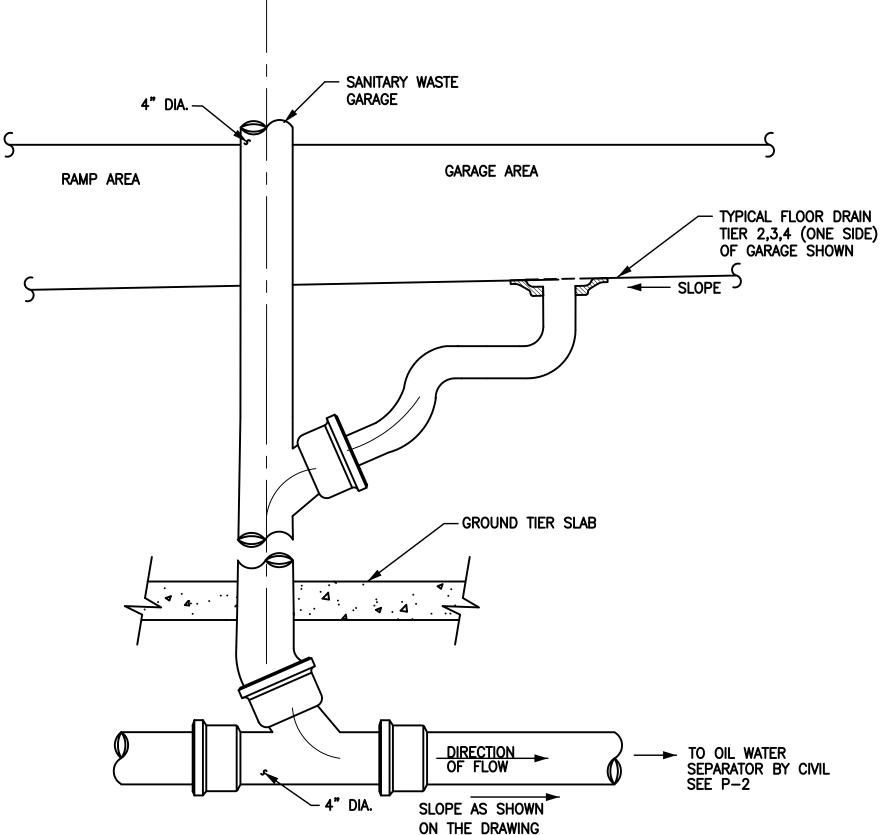
- GALVANIZED PIPE SLEEVE SCHEDULE 40

ROUND ESCUTCHEON PLATE AS SPECIFIED (TYPICAL)

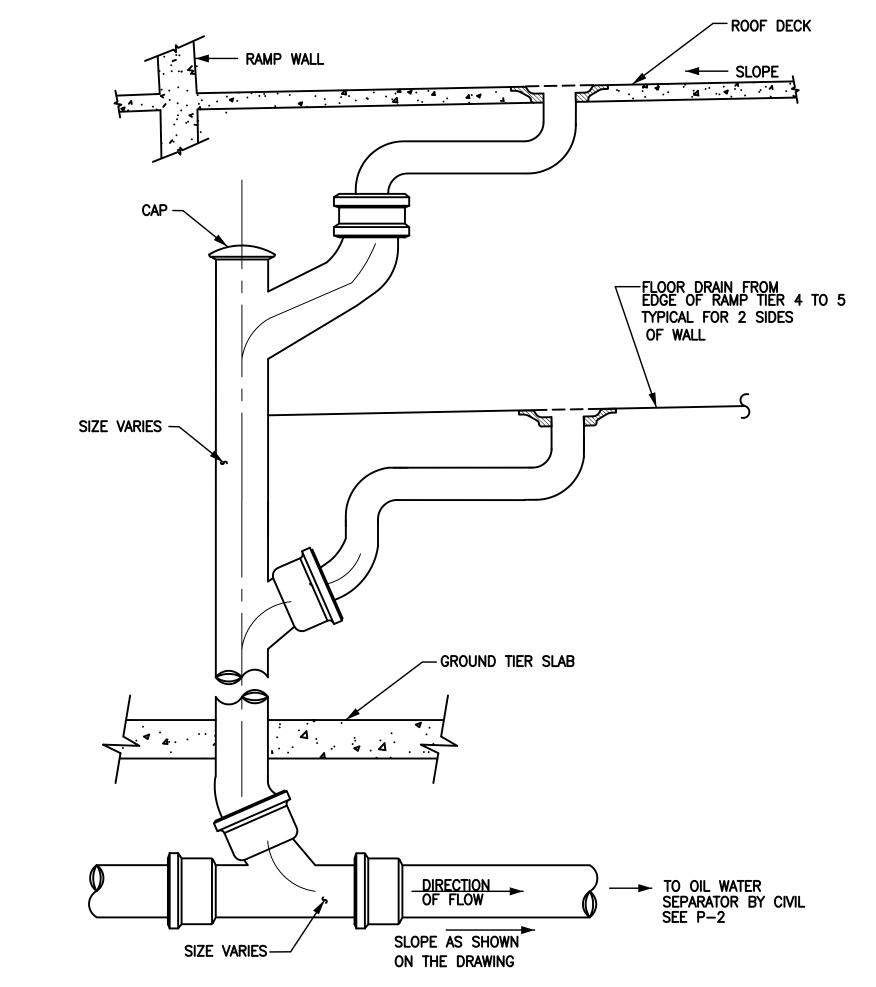


EXPANSION ANCHORS W/ SCREW FASTENERS (TYPICAL)

BELL & SPIGOT PIPE DETAIL 4 - EXPOSED CLEANOUT AND ALSO VERTICAL TO HORIZONTAL "Y" **TRANSITION**



<u>DETAIL 6 — GARAGE SANITARY DRAINAGE</u> (ONE SIDE SHOWN)



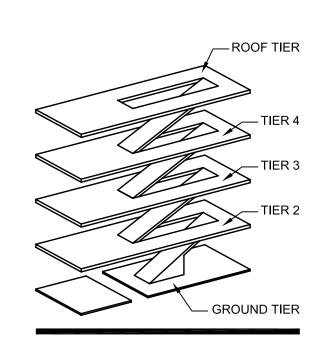
DETAIL 7 - STORM DRAINAGE ROOF DECK AND RAMP TIER 4 TO 5 (ONE SIDE SHOWN ONLY)

- 1. REFER TO SHEET P-01 FOR LEGEND, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES.
- 2. REFER TO SHEET P-06 FOR STANDARD PLUMBING DETAILS.
- 3. REFER TO SHEET P-01 FOR FIXTURE SCHEDULES.
- 4. ALL VERTICAL PIPES SHALL BE PROTECTED AS PER PIPE GUARD (DETAIL 5).

PIPE SLEEVE DATA -INTERIOR WALLS & FLOORS SLEEVE-SCH. 40 PIPE NOM. SIZE IN. CARRIER PIPE NOMINAL SIZE 1 1/2 $2 - \frac{1}{2}$ 12 14

60% SUBMITTAL May 2, 2005

JAM Parking Structure 101-115 Middlesex St. City of Lowell, MA



Civil/Structural:

Parsons Brinckerhoff

Quade & Douglas, Inc. 75 Arlington Street Boston, MA 02116 Tel: 617-426-7330 Fax: 617-482-0642

Architecture: Fennick McCredie Architecture, Ltd.

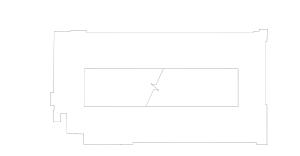
Judith Nitsch Engineering

Cost Estimating: Hanscomb, Faithful & Gould

Code Compliance: Robert W. Sullivan, Inc.

Landscape Architecture: Pressley Associates, Inc.

	Job No.:	18913A
	Drawn By:	EJB
	Checked By:	JD
	Date:	5/2/05
	Scale:	NONE





PLUMBING -**DETAILS** DRAWING 1 OF 2

P-07

KEY PLAN